

Application of Granular Computing Paradigm in Knowledge Induction

Authors : Iftikhar U. Sikder

Abstract : This paper illustrates an application of granular computing approach, namely rough set theory in data mining. The paper outlines the formalism of granular computing and elucidates the mathematical underpinning of rough set theory, which has been widely used by the data mining and the machine learning community. A real-world application is illustrated, and the classification performance is compared with other contending machine learning algorithms. The predictive performance of the rough set rule induction model shows comparative success with respect to other contending algorithms.

Keywords : concept approximation, granular computing, reducts, rough set theory, rule induction

Conference Title : ICDSDS 2017 : International Conference on Digital Societies and Data Studies

Conference Location : New York, United States

Conference Dates : October 05-06, 2017